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SHIRT SLEEVE MAINTENANCE CLINIC

SPONSORED BY

THE PUBLIC HOUSING ADMINISTRATION

AND

NATIONAL ASSOCIATION OF HOUSING AND REDEVELOPMENT OFFICIALS

UNDER THE AUSPICES OF

HOUSING AUTHORITY OF THE CITY OF NEWARK

TUESDAY AND WEDNESDAY MAY 26, 27, 1959 JUNE 2, 3, 1959

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FOREWORD

The Housing Authority of the City of Hewark was gratified to conduct the Birt Sleeve Maintenance Clinics sponsored by the Public Housing Administration and the National Association of Housing and Redevelopment Officials.

The purpose of these clinics was to encourage critical self-analysis by the participating Authorities and to provide a medium for mutual sharing of experiences in maintenance problems and techniques.

Certain project operating costs, such as taxes and utilities are fixed. We have no direct control over these. Only a few avenues are open where we can reduce expenses. The principal one is maintenance operations. Expenses can be reduced in several or all of the following ways:

- The elimination of waste and inefficiency in our operations. This can be accomplished through proper training and thorough analyzes of our operations and then putting into effect recommendations for economical operations based upon these analyzes.
- 2. The innovation of new labor saving techniques.
- 3. Better design to guarantee economy.
- 4. Tenant maintenance.

Beduction of expenditures becomes increasingly important when we realize that because we are operating a low-rest program, our income remains fairly constant. On the other hand, expenses have been rising and the frequency and extent of regains and replacements in our older projects is increasing. In brief, the expense curve is rising sharply while the income curve vasming fairly horizontal and constant.

It is our responsibility to change the direction of these curves so that they will run parallel and as horizontal as possible.

LOUIS DANZIG Executive Director

PUBLIC HOUSING ADMINISTRATION

New York Regional Office

346 Broadway New York 13, New York

May 7, 1959

TO PARTICIPATING APPRORITIES .

The Public Bousing Administration and the National Association of Housing and indervelopment Officials are jointly sponsoring a Shirt Sleeve Weintenance Clinic at HRAILEY COURT, No N. Num. Assume, Nevent, New Jersey, or Nay 26 and 27, 1559, and tune 2 and 3 1559, when the supplies of the Newark Housing Authority. You will note from the agenda supplies of the Newark Housing Authority. You will note from the agenda supplies of the Newark Housing Authority. You will note from the agenda supplies of the trust down the supplies of the conference will be devoted to grounds, structures and safety. The program has been so arranged that personnel from your authority engaged in heating plant operations and the other maintenance entegories can attend these meetings the first or second day or both days.

Representatives of 30 Housing Authorities in Northern New Jersey and Metchester County, New York, will be invited to participate in the conferences and demonstrations. The sim is to foster an interest in the reduction of maintenance costs through greater efficiency in operations. In order that maximum exploitation of the subjects to be covered may be gamed, it is requested that the personnal selected to attend be limited persons engaged in the specific maintenance function more, only those persons engaged in the specific maintenance function that the persons engaged in the specific maintenance function.

Luncheon will be served in the Auditorium of BRALEY COUNT at a cost of approximately \$1.50 per person. Enclosed is a copy of a form letter which we request that you complete and return to this office not later than Nay 20, in order that arrangements may be made for the luncheon. Travel expenses incurred by personnel attending the clinic are chargeable to Account \$190.

As heretofore, we repeat that these conferences offer an excellent medium for staff training through exchange of operational experiences. You are urged to take maximum advantage of the opportunity for your personnel to attend.

Sincerely yours,

HEFMAN D. HILLMAN Regional Director

AUTHORITIES PARTICIPATING

in

SHIRT SLEEVE MAINTENANCE CLINIC

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FIRST SESSION - May 26, 27

Hackensack, New Jersey
Hoboken, New Jersey
Lodi, New Jersey
Newark, New Jersey
North Bergen, New Jersey
Paterson, New Jersey
Paterson, New Jersey
Treaton, New Jersey
Union City, New Jersey
West New York, New Jersey
Tucknhoe, New York
Yonkers, New York

SECOND SESSION - June 2, 3

Beyone, New Jersey
Elizabeth, New Jersey
Garfield, New Jersey
Guttesberg, New Jersey
Harrison, New Jersey
Irvington, New Jersey
Jersey City, New Jersey
Mouristown, New Jersey
Newark, New Jersey
Newark, New Jersey
Orange, New Jersey
Presport, New Jersey
Fresport, New Jersey
Fresport, New Jersey
Fresport, New Jersey

Agende For SHIRT SLEEVE MAINTERANCE CLUMC held at Joseph P. Bradley Court

46 North Hunn Avenue Newark, New Jersey

REGICIAL CHAIRMAN: John J. Tracy, Public Housing Administration

GENERAL CHAIRMAN: Morton A. Jamieson, Newark Housing Authority

FIRST DAY

8:30 a.m. - 9:00 a.m. - Registration

9:00 a.m. - 9:15 a.m. - General Session

Invocation - Rev. Thomas J. Finnegan, Chairman, Newark Housing Authority Addresses of Welcome - Louis Danzig, Executive Director

Arthur Flanigan, Public Housing Administration

Newark Housing Authority

9:15 a.m. - 9:30 a.m. - The Heating Plant

DISCUSSION MODERATOR: George L. Barta, Public Housing Administration

Fundamentals of Heating Plant Operation
 Film - Courtesy of New York City Housing Authority

9:30 a.m. - 10:00 a.m.

 Oil Burner Assembly Michael Hogan, Combustion Installations Corporation

10:00 a.m. - 12:00 noon

 The Oil Burner - Maintenance and Operation Stephen Galaida, Newark Housing Authority Edwin Dunlap, Newark Housing Authority

32:00 moon - 1:00 p.m. - LUNCH

1:00 p.m. - 1:30 p.m.

4. Boiler Water Treatment Louis Hament, Aquatrol Laboratories, Inc.

1:30 p.m. - 2:00 p.m.

 Demonstration of Boiler Cleaning Richard R. Gwilliam, Formula Floor Products, Inc. Agenda - First Day (cont.)

2:00 p.m. - 4:00 p.m.

6. The Steam Boiler - Operation and Maintenance

7. The Heating System

Stephen Galaida, Newark Housing Authority Robert Milan, Newark Housing Authority

SECOND DAY

DISCUSSION MODERATOR: Herbert O. Pagher, Public Housing Administration

9:00 a.m. - 10:00 a.m.

Safety and Fire Prevention
 Henry L. Schoettly, Battalion Chief, Newark Fire Department

10:15 a.m. - 11:15 a.m.

 Mechanical Equipment - Demonstration Stewart M. Pond, Wayne Manufacturing Company

11:15 a.m. - 12:00 noon

 Locks - their repair, maintenance, installation, and replacement. James Shamshan, Weiser Lock Co. Arthur Gaviolas, Weiser Lock Co.

12:00 noon - 1:00 p.m. - LUNCH

1:00 p.m. - 1:30 p.m.

4. Annual Inspection of Apartments
Morton A. Jamieson, Newerk Housing Authority

1:30 p.m. ~ 2:00 p.m.

 Walks and Pavements, Benches, Yard Equipment and Appurtenances Herbert O. Fagher, Public Housing Administration

2:00 p.m. - 3:00 p.m.

Maintenance Techniques - Floors
 B. Coven, Formula Floor Products, Inc.

3:00 p.m. - 4:00 p.m.

 Preventive Maintenance of Roofs, Appurtenances, flashings, and Parapet Walls

Robert A. Ronayne, John N. Thorp Co., Inc.

SUMMARY

Two Shirk Sleeve Maintenance Clinice sponsored jointly by the Public Housing Administration and the National Association of Housing and Redevelopment Officials were held under the supplies of the Bousing Authority of the City of Neurak. These Clinics, the first to be held in Newark, were held at Joseph P. Bradley Court, Nu. J. 2-18, 46 North Munn Avenue.

To provide and insure maximum individual participation, the program was divided into two sessions, the first on Way 26 and 27, 1959; and the second on June 2 and 3, 1959.

At the first session there were thirty-five representatives from twelve different Authorities located in the morth New Jersey and New York areas. At the second session there were thirty-mine representatives from thirteen other Authorities, from the same geographical area.

The purpose of these Clinics was to discuss and demonstrate the ways and seems by which maintenance costs can be reduced through greater efficiency in operations; to permit the participants to discuss the many problems which confront the maintenance staff in its day-to day operations; to exchange inmividual experiences and methods of correction; and, to penuit the participants to perform corrective maintenance at the Clinic itself.

FIRST DAY

The session was opened by Mr. Morton A. Jamleson, Supervisor of swinteance, Rousing Authority of the City of Newsuk, who was the General Camirman of the program. He introduced Mr. Louis barsig, Executive Director of the Bousing Authority of the City of Newsik, who greeted the participants and added that he was greetly pleased that Newsuk was selected as the site for this clinic. He expressed the hope that from the discussions, demonstrations, and conclusions reached at these sessions, there would evolve a sclution to the problem of maintaining public housing projects at an acceptable standard and at a cost which would insure the solvency of local housing authorities.

Ar. Arthur Planigan, Management Coordinator, representing the New York Regional Office, welcomed everyone on behalf of the Public Housing Administration. He stated that the coordinated and combined undertaking of the Netional Association of Rousing and Redevelopment Officials, Public Housing Administration, and the Newark Housing Authority should result in a very fruitful conference, and expressed the hope that everyone attending would profit by it. He thanked the General Chairman of the program and his assistants for the effort put into the development of the program.

At this point the General Chairman, Mr. Jamieson, turned the program over to Mr. George L. Barte, Maintenance Engineer, Public Housing Administration, who was the Discussion Moderator for the first day's session.

Since boiler room operation presents some of the biggest problems in maintenance, and represents probably the most expensive operating costs, the entire first day was devoted to heating plant operations.

(1) During the morning session, through the courtesy of the New York toty Housing Authority, a fifteen minute film was shown which demonstrated the operation of a horizontal rotary type fuel oil burner designed to burn No. 6 Auel oil. This burner system is similar in design to those in use at most local authorities.

The film stressed the fundamentals of heating operations. It showed how the oil is taken from the tanks through a untion line by means of a fuel oil transfer pump. This results in the formation of combustion gases, which wary in temperature within the combustion chapter from 2000 to 2500 degrees fabrembest. The heat from these combustion gases is transferred through the metal surfaces of the boiler into and through the water, resulting in the generation of steam. The steam is then distributed through a series of underground pipes through all the buildings to provide heat and hot water services.

The film showed how to start a burner, the positions of the switches, etc. It pointed out the many instruments, such as the Tuel oil indicator gauge, which shows the amount of oil present; the temperature gauge, which indicates the temperature of the fuel oil; and the vacuum gauge, which shows the operation of the fuel oil service pump.

The film also showed that in order to maintain a constant uninuum temperature of 70° in the apartments, a beating control system depends upon a master control puels which operates in conjunction with an outside weather compensator or selector. This control puel is directly responsible for the operation of the materials are control value which supplies steam to the radiators. Through the belancer and differential control a desired temperature is maintained in the buildings. All these instruments work together for the efficient distribution of steam through the apartments so all temsets will reside in a healthful

(2) Mr. Michael Hogan of Combustion Installations Corporation, distributors of the Todd oil burner, spathered the participants around a display model of an oil burner and discussed its assembly, component parts and the principal steps in its operation. The burner was disassembled and reassembled during the instruction period. Mr. P. Anzelone, an Engineer from the Todd Shipyards Corp., Products Division, pointed out the various instruments and gauges used in the burner operation, and in concert with Mr. Hogan, explained the details of the oil burner.

The burner demonstrated consumes 100 gallons of No. 6 fuel oil per hour. The only moving parts on this burner are the motor, primary fan, atomizing cup. The cup is direct driven by 3450 RPM motor. It was stated that the primary purpose and method of burning fuel oil in rotary cup burner has not changed over a period of twenty years. Nr. Anzalome again pointed out all the different parts of the burner and explained the detailed operation of each. Problems which would most likely be encountered and how to cope with them, were discussed.

Mr. Annalone then explained in detail how to start the burner, and keep it in operation. He talked about the problems created when oil is too cold, how it stagmates in the oil line and becomes hard to pump.

Mr. Anzalone also pointed out the combustion control panel and all its features. The one on display was a Cleveland model.

Mr. Jess T. Humple, Jr. of the Minnsapolis-Honeywell Regulator Company then spoke about pressure controls on boilers and heating systems. He discussed the common Minneapolis-Honeywell controls used in our boilers and their purpose. A lively discussion period followed on the problems encountered by the various housing authorities.

Mr. Larry Carter, also of Minneapolis-Honeywell, spoke about motorized valves; modulating valves; climactic controls; the purpose and importance of westberstat and zone control valves for heat distribution.

Many of those present were very interested in this part of the program since all had similar problems at one time or another. Many questions were saked, and answered. The following recommendations for preventive maintenance were

- (a) The fan should be kept free from dust and dirt.
- (b) The atomizer cup should be removed and cleaned each day.
- (c) If the motor requires grease, the only grease to be used should be that recommended by the motor or bearing manufacturer. It is worse to overgrease than not to grease at all.
- (d) Electrical controls and wiring should be kept clean and dry.
- (e) Ignition assembly should be checked daily. Carbon and dirt collect around spark points and cause ignition failure.
- (f) The element should be taken out as required.
- (g) The needle valve should be dismantled as required.
- (h) The oil should not be overheated; otherwise it can crack and a deposit of carbon and sludge will form. A temperature between 160° and 180° should be maintained. Very little carbon and sludge will result.
- It is always important to have replacement parts on hand.
- (j) The fan housing should be cleaned as required by disconnecting the wiring and pulling out the whole ascembly. Care should be taken not to let shaft bend.
- (k) The manufacturer's instructions should be read carefully and followed.
- (3) it this point the group proceeded to the project boiler room. Under the direction of Mr. Edwin Dunlay, Oil Burner Mechanic of the HOWLING AUTHORITY OF THE HOWLING AUTHORITY OF THE MINISTRY, THE PRINTED AUTHORITY OF BUTTERS WAS STREET, A number of the participants strenged. A number of the participants received practicel instruction in this phase of the conference.
- (-) The afternoon session began with a discussion by Mr. Louis showest, General Manager of Aquatrol Lacoratories, Inc. about the qualities of boiler water and the methods of testing and treating same. He described the correction problems created by the games and noisids which result from the readmensate returning to the boilers and the continual passage of games of participants than proceeded to the boiler roan where a sample of the booler water was drained from the boiler and the proper method of testing and draming same was demonstrated.

2) Ac. annext k, william of Formals Flow. Fromets, nec., and v. J. 'S species of Brewer Electric Mig. C:, necessarized the puncing operation of boiler tubes, which should be done monthly. They uses a scraper tool attached to a venum cleaner. When this is p.t. into the boiler tube, it turns and scrapes the .cot deposits which have caked on the inside of the boiler tubes. They also showen how every two weeks each boiler tube should be cupped, using a straign suction method, to wike out all particles of loose soon.

After the demonstration, Mr. Spencer took the lid off the lum and showed everyone what had come cut of the boiler tubes as a result of the punching and outping operations.

(6) After this demonstration, Mr. Stephen Galaids and Ar. Robert blan of the Housing Authority of the City of Newark, demonstrated the proper method of blowing down a boiler. They spoke about the importance of keeping low water cut-offs clean during normal operations.

SECOND DAY

(1) Mr. Hexbert C. Fagher, Operations Engineer, Public Housing Administration, as Discussion Moderator, introduced Fattalion Chief Henry L. Schoettly of the Newark Fire Department.

Chief Schoettly spoke about fire hazards in apartment buildings and how building management could aid their local fire departments in reducing these hazards. Chief Schoettly spoke about the need for educating the public and the people who occupy public housing spartments in the matter of fire prevention. Fire prevention came under two categories:

(a) Public in General

(b) Employees, managers, and personnel who run projects.

He pointed out that it is very hard to reach the tenants except through education, posters, circulars and the like. However, there are certain places in buildings over which employees have control, namely, boiler rooms, workshope, tenant activity space.

Chief Schoettly numed many things which should be checked to help prevent fires, such as paints, which are highly flummable; oily overails; painters' rags; and turpentine. Some of the sources of ignition on projects are wood, elevator machinery, retrigerator mechanisms, electric wiring, he also stated that no matter what type of building, no accumulation of rubbind of any kind should be permitted in hallowlys, stairway, vertibules, or incinerators. A responsible employee should go around at regular intervals and make sure everything is clean.

Another potential heard is the incinerator, which should not be stuffed with mattresses and similar bulky items. Where we have control over electric wiring, prompt repairs should be made whenever necessary. Locked fire doors, stairways and exits cause considerable trouble to a fire department trying to gain access to a fire in apartment buildings. Management, in trying to protect buildings from wandalism, lock these means of entry and hamper fire fighting.

The Fire Department can be assisted in the following ways:

- (a) When there is a fire, if you know about it, remember that a prompt alarm is very important. A great percentage of bad fires is due to late alarms.
- (b) When an alarm is turned in, the Fire Department should be told exactly the building and the floor where the fire is located. Housing projects are extensive and delay is caused in finding the exact location of the fire.
- (c) Hold an elevator for Fire Department use. When the firemen arrive they can speedily gain access to the top floors, or wherever the fire may be.

Chief Schoettly also mentioned that fire extinguishing equippout and standpipes are not of much muse unless they are kept in proper working condition. Vandelisa creates a problem. Hosea, noraleu, and fittings, even gate walve wheels are stolers. This equipment should be inspected regularly and kept in good operating condition.

Chief Schoettly had several fire extinguishers on display, including cutsavay models. He explained each type and how it should be used. He then went on to make the different types of fires, namely:

Chas A fire -- wood, rags, wool, silk, say other cellular material. This type is put out by a cooling effect. The application of cold water cools the burning substance balow the point of ignition.

Class B fire - flammable liquids and greeces. This type is extinguished by water fog and spray, which elements all oppose had smothers the flame.

Class C fire -- electricity. An extinguisher which is a non-conductor, such as CO, or powder, should be used.

After the Chief's talk, everyone proceeded outopors, where each type of fire was demonstrated and gut out by the various extinguishers. Here again a considerable number of the participants received individual instruction in handling fire extinguishers and putting out fires, $\boldsymbol{\theta}$

- (2) Mr. Steuart M. Fond of the Wages Magniantizing Company demonstrated the Wayas Fower Sweeper. Hr. Fond pointed out the fasWares of both the hand operated aweeper and the larger power driven model with the vire curb sweeper statements. For an Wifective demonstration, the area was literated with dirt, broken glass and other debris. The med again user permitted has operate the equipment.
- (3) Mr. James Shanakan and Mr. Arthur Saviqla of the Wedser Lock Co. explained the repair, maintenance, installation and replacement of locks. The proper method of installing locks on several types of doors was demonstrated by Mr. Peter Doherty of the Housing Authority of the City of Mewnrk.
- (b) The afternoon gessign begon with a tour of several apartments in the project during which the medical of conducting a typical annual interpretation, see themographics.
- As inspection is mude of each apartonia, public space, and the exterior of the entire project annually. The general practice, when suspections are made, it to have a representative of the Management Section accompanied by a representative of the Maintenance Session. Temants are sayised that is accordagles with the instruction further than the original faities of coupling, rules and regulations outlined must be adhered to at all times.

Dealing unit sheets were passed among the group outlining the extent to which inspections are made of the dealing units. Attention is given to the general appearance and housekeeping habits of the tenants. Furficular attention should be paid to fearcet leaks because of the cont in furnishing hot and cold water as part of the services provided. Questions were raised regarding the life expectancy of teems furnished by the Authority to the tenant; also what charges were made where there were indications of villiful destruction.

When services of a mechanic or the building maintenance repairman are required at any other time, it is the responsibility of the tenant to report the nature of the work requiring attention to the Management Office.

Upon completion of the inspection, items requiring immediate attention are taken care of forthwith. Where materials are required that are not on hand, requisitions are prepared and forwarded to the Purchasing Department. When the materials arrive at the project, the work requested is performed.

The inspection provides detailed information for the preparation of the budgets. Very often funds do not permit extensive recommended changes, particularly in the grounds program.

- (5) The group proceeded outdoors once again, and the method of nescabiling an outdoor eitting area bench was demonstrated. This was followed by a demonstration of the proper techniques used in patching a portion of a black top area and how to raise a section of a sidewish to its proper level. This demonstration was conducted by members of the maintenance division of the Newerk Nousing Authority.
- (6) The group returned to the meeting room where representatives of the Formula Floor Products Co., Inc. proceeded with a demonstration of the proper method forecleaning a floor.

Mr. Joseph Hifoussi exhibited the latest scientific equipment, which included a scrubbing machine and a set pick-up waxuum clearer. He stated that maintenance of floors is made much easier with this equipment. A survey of maintenance costs in school buildings, conducted by his company, showed a reduction of fifty percent in costs.

Before starting to clean a floor; it should be emalysed. The proper type of cleaner to be used should be decided upon. Then determine the correct type of commercial product for the floor. This method of renewing the floor would eliminate all buffing and would not scuff.

On asphalt tile floors, Mr. Mifoussi mentioned that solvents would be an eight solvents would be a free rimse liquid or detergant. He proceeded to demonstrate. The first phase of renewal is called the stripping operation. He used two buckets with two maps, with classner in one pail and rinse water in the other pail. The purpose of this was that dirt was not redeposited on to the floor. The cleaning solution was applied to the floor with a map. The solution remained on the floor is eva minutes before asymbiant.

He then used a porous sorubbing pad over a sponge rubber yea on a sorubbing machine. The machine was operated from left to right so as to cover the entire surface.

After the floor was acrubbed, the wet vacuum clenner was used to suck up all the water into a stainless steel tank, after the wet vacuum operation, the floor was again rinsed to pick up any residue that might remain. Then the floor was damp-apped to dry out any wet spots. After about five minutes, the floor was sufficiently dry to apply the first coat of was or dressing. The first coat should be applied very thinly. Then another coat may be applied when this has dried. Two men working together can do about \$200 square feet yer hour.

(7) When this was completed, Mr. Fugher introduced Mr. Robert A. Ronanye and Mr. Danou Noodley of the John N. Ghory Co., Inc. Mr. Woodley showed a film on the use of Tuff-Kote on roofs, copings, flashings, window sills, etc. He showed how this material is used on expanding cricks to make them waterproof. He slao showed the method of applying Tuff-Kote with glass fabric membrane. He stated the fact that Tuff-Kote is made of linseed, tung and other ofls, chemically treated to a gelstime like consistency. Tuff-Kote is pliable and durable and will waterproof and weatherproof any surface to which it is applied.